BRUHATH BANGALURU MAHANAGARA PALIKE
YELAHANKA ZONE

Office of the Executive Engineer
Electrical Division, Yelahanka Zone
Bruhath Bengaluru Mahanagara Palike

"Schedule-B"

Name of the work : Annual Maintenance Of Electrical Equipments and Maintenance of Crematorium at Mediagrahara Lakshnipura in ward no11

Sl No	Qty	Description Of Work	Unit	Approved Rates	
				In figures	In words
1	1	Licenced electrician wiremen fitter with tools (Skilled) Rs.13365/Person/Month. Rs.13365*12=1,60,380/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person	160000.0 13,333-33	Rupees One Lakh and Sixty Thousand only
2	1	a).Helper (Electrical) (Semi-Skilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person	140000.0 11666-66	Rupees One Lakh and Forty Thousand only
3	1	a).Sweeper (Unskilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person	140000.0 11666-66	Rupees One Lakh and Forty Thousand only
4	1	Gurkha Watchman (Unskilled) Rs.11011/Person/Month. Rs.11011*12=132132/Person/Year. KAE71LWA 2015 Dated 04-08-2016	Per Person	140000.0 11666-66	Rupees One Lakh and Forty Thousand only
5	100	Material components per day a)soap oil	P/Ltrs	15.0	Rupees Fifteen Only
6	150	b)henyl	P/Ltrs	50.0	Rupees Fifty Only
7	200	c)Air Freshner cakes	Each	100.0	Rupees One Hundred Only
8	100	d)Room Freshner	P/Ltrs	100.0	Rupees One Hundred Only
9	100	e)Checks cloth	Doz	50.0	Rupees Fifty Only
10	50	f)Dust cloths	Doz	60.0	Rupees Sixty Only
11	36	g)Mop cloth	Each	60.0	Rupees Sixty Only
12	36	h)Soft broom	Each	25.0	Rupees Twenty Five Only
13	36	i)Hard broom	Each	30.0	Rupees Thirty Only
14	12	j)Road brush	Each	100.0	Rupees One Hundred Only
15	150	k)Urinal cakes	Each	50.0	Rupees Fifty Only
16	36	l)HCL	P/Ltrs	100.0	Rupees One Hundred Only
17	8	Supplaying & Fixing of Body laying with MCL 150X300X600mm	Each	10000.0	Rupees Ten Thousand Only
18	6	Supplying and fixing of heating element made out of nickel chromium 8/20, 8 SWG composition wire with SS 310, 450 x 10 mm dia. with one side threaded terminal rod duly welded, coil length 2690 mm, coil dia., 25 mm, weight of the coil 4.5 kg, coil of 0 to 25 mm ID 15 mm pitch to 8 to 10 mm (inclusive of KST, ST and CESS etc.	Each	15000.0	Rupees Fifteen Thousand Only

19	3	Supplaying & Fixing of nickel chromium Heating coils 4.5 KW suitable for Verticle mounting system in Electrical Furnace	Each	10000.0	Rupees Ten Thousand Only
20	1	Annual Maintenance of 180 KVA D.G. Set Existing A.M.C. including of labour charges only for replacing the spare parts and periodically checkup of D.G. AMF panel (Without operator)	Each	12000.0	Rupees Twelve Thousand Only
21	2	Supplying & Changing of B Check Kit for Engine.	Nos	2000.0	Rupees Two Thousand Only
22	1	Supplying & Changing of Alternator AVR.(Automatic Voltage Re	Nos	5000.0	Rupees Five Thousand Only
23	1	Supplying & Changing of Alternator Rectifier	Nos	5000.0	Rupees Five Thousand Only
24	1	Supplying & Changing of Dynamo repair Kit such as Corbons, Bearings & Diode Etc,.	Nos	1000.0	Rupees One Thousand Only
25	2	Supplying & Changing of Batery terminals	Nos	2000.0	Rupees Two Thousand Only
26	1	Supplying & Fixing of Air filter	Nos	1000.0	Rupees One Thousand Only
27	1	Supplying & Changing of Radiator Fly wheel gear	Nos	3000.0	Rupees Three Thousand Only
28	3	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses). With AC-23A duty and as per IS-13947. 2) 125Amps	Each	3000.0	Rupees Three Thousand Only
29	3	Supplying and fixing HRC fuse link on existing switch fuse base with watt loss as per IS-13703. 3) 125Amps	Each	2250.0	Rupees Two Thousand Two Hundred and Fifty Only
30	1	Supplying & Changing of Cylinder head caliberation.(3 Nos)	Set	5000.0	Rupees Five Thousand Only
31	1	Supplying & Changing of Radiotor hose Kit (3 Nos)	Set	5000.0	Rupees Five Thousand Only
32	1	Supplying & Changing of Pump gasket	Nos	1000.0	Rupees One Thousand Only
33	1	Supplying & Changing of Top cover gasket.	Nos	1000.0	Rupees One Thousand Only
34	4	Servicing & cleaning of Scrubber, Scrubber duct Exhaust Blower & Duct Furnace to Chimny and cleaning of chimny (6 monts once)	P/Set	25000.0	Rupees Twenty Five Thousand Only
35	4	Accost - 50 Grade	Bag	1000.0	Rupees One Thousand Only
36	2	Fire crate super	Bag	1000.0	Rupees One Thousand Only
37	2	Thermotex	Bag	1000.0	Rupees One Thousand Only
38	3	Fire blanket : 128 Grade	Each	1000.0	Rupees One Thousand Only
39	102	IS 8 Standard Brick : Size : 9x4.5x3	Each	200.0	Rupees Two Hundred Only
40	6	Plastic buckets 20 L capacity PWD Civil SR 2013-14	No	200.0	Rupees Two Hundred Only
41	10	Plastic Mugs PWD Civil SR 2013-14	No	100.0	Rupees One Hundred Only

42	10	Point wiring using Copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2 X1.5Sq.mm Cable confirming to the GTP, with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet / gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. GROUP A Long point above 6Mtr upto 10Mtr from tapping point to out let via switch	Mtr	600.0	Rupees Six Hundred Only
43	95	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -A.1.5 sqmm	Rmt	10.0	Rupees Ten Only
44	95	4)4 sqmm	P/Mtr	15.0	Rupees Fifteen Only
45	20	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board. GROUP A 6Amps SV Switch	Nos	200.0	Rupees Two Hundred Only
46	10	6Amps 3 way 5 pin Socket	Nos	100.0	Rupees One Hundred Only
47	5	16 Amps SP switch	No	160.0	Rupees One Hundred and Sixty Only
48	5	16 Amps 3 way 5 pin socket	No	200.0	Rupees Two Hundred Only
49	5	Stepped Fan Regulator.	Each	450.0	Rupees Four Hundred and Fifty Only
50	20	LED Indoor Supplying of 2' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical conditionLED light fighting 4' - 28 watts	Nos	2000.0	Rupees Two Thousand Only
51	3	Supplying and fixing Moulded Case Circuit Breaker (MCCB) Over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/Micro processed release and Earth Fault as per IS-13947. (Icu=Ics). FOUR POLE 6) 125-160Amps 25kA.	Each	2250.0	Rupees Two Thousand Two Hundred and Fifty Only
52	1	Supplying and fixing of Shunt trip suitable for MCCB.CBCT.	Each	1000.0	Rupees One Thousand Only
53	2	Supplying, installaion, testing & commis-sioning of 12Volts.. AH batteries in poly propylene container for D.G Sets low maintenance batteries. 4) 150 AH, Acid batteries.	Each	3000.0	Rupees Three Thousand Only
54	6	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 4) 100 Amps	Each	200.0	Rupees Two Hundred Only
55	6	5) 200 Amps	Each	400.0	Rupees Four Hundred Only

56	3	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete. 2) 15" Sweep (450mm)	Each	4500.0	Rupees Four Thousand and Five Hundred Only
57	3	Fixing one exhaust fan after making a suitable nitch in the wall and finishing with cement mortar and colouring to match the existing wall or brackets, with bolts and nuts and a 5 amps, ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire of approved make with wire mesh and wooden frame.	Each	500.0	Rupees Five Hundred Only
58	4	Supplying and fixing of Alkathine tube of 25 mm dia as per standard technical specification	Mtrs	2000.0	Rupees Two Thousand Only
59	2	Supplying and installation of RUBBER MAT 1 mt X 2mt 10 mm thick. PWD Electrical SR 2010-11	Each	1500.0	Rupees One Thousand and Five Hundred Only
60	10	Supplying and fixing of DANGER/NO ADMISSION/NO SMOKING board made out of MS sheet metal with two coats of non corrosive enameled paint. PWD Electrical SR 2007-08	Each	200.0	Rupees Two Hundred Only
61	4	Supplying of Rubber HAND GLOVES of Electrical quality to 22KV. PWD Electrical SR 2007-08	Pair	100.0	Rupees One Hundred Only
62	4	Supplying of Safty MASK, PWD Electrical SR 2007-08	Each	200.0	Rupees Two Hundred Only
63	6	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.	Each	200.0	Rupees Two Hundred Only
64	9	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes 11) 95 sq mm long barrel	Each	150.0	Rupees One Hundred and Fifty Only
65	7	15) 240 sq mm long barrel	Each	150.0	Rupees One Hundred and Fifty Only
66	6	Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947. 4) 5)160-200Amps	Each	2000.0	Rupees Two Thousand Only
67	3	3) 60-70 amps	Each	1500.0	Rupees One Thousand and Five Hundred Only
68	5	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10K and Complete wiring as required confirming IEC 60898. 6) 40-63 Amps TPN	Each	1000.0	Rupees One Thousand Only
69	8	3) 5-32Amps DP	Each	450.0	Rupees Four Hundred and Fifty Only
70	2	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer.LED Floodlight 90W	Nos	20000.0	Rupees Twenty Thousand Only

71	350	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 2 X 16 + 1 X 25 SQ.MM	Mtrs	500.0	Rupees Five Hundred Only
72	350	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Mtrs	50.0	Rupees Fifty Only
73	10	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II LED Streetlight 65watts	Nos	12000.0	Rupees Twelve Thousand Only

I am prepared to take up the above work at rates quoted in the Schedule 'B'

Contractor

EXECUTIVE ENGINEER (ELEC)
BBMP, Yelahanka Zone